

Card 1/3

L 62061-65

ACCESSION NR: AP5016840

graphically. The effective activation energies of the thermal and radiation-thermal processes were found to be 60 and 24 kcal/mol. Orig. art. has 2 tables and 5 figures.

ASSOCIATION: Institut neftekhimicheskogo sinteza im. A. V. Topchiyeva AN SSSR
(Institute of Petrochemical Synthesis, AN SSSR); Institut fizicheskoy khimii AN SSSR
(Institute of Physical Chemistry, AN SSSR)

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515430004-9

(Institute of Physical Chemistry, AN SSSR)

SUBMITTED: 04Jul64

ENCL# 01

SOV CODE: 52, G4

NO REF Sov: 003

OTHER: 001

Card 2/3

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515430004-9"

L 62081-65

ACCESSION NR: AP5016840

ENCLOSURE: 0

Fig. 1. The relation between the yield of gaseous products in thermal and radiation-thermal cracking of the straight-run distillation benzene with the boiling end at 140°C to temperature. 1- radiation-thermal cracking in the reactor with a uniform temperature field; 2- thermal cracking in the same reactor; 3- radiation-thermal cracking in the reactor with nonuniform temperature field; 4- thermal cracking in the same reactor.

Kf
Card 3/3

TSVETAYEVA, Ye.M.; GLUSHNEV, V.Ye.

Methods of synthesis and modification of softeners for rubber
reclaiming. Kauch. i rez. 24 no.11:19-22 '65. (MIFI 1965)

1. Nauchno-issledovatel'skiy institut shinnoy promyslosti i
Institut neftekhimicheskogo sinteza AN SSSR.

S/035/62/000/001/004/033
ACC1/A101

AUTHOR: Glushneva, T. N.

TITLE: On determining the sizes of particles participating in the production of scattered light

PERIODICAL: Referativnyy zhurnal. Astronomiya i Geodaziya, no. 1, 1962, 29.
abstract 1A272 ("Soobshch. Gos. astron. In-ta im. F. K. Shternberga",
1960, no. 107, 16-22)

TEXT: The author analyzes scattering of light in a cloud of small particles,
the size distribution of them being expressed by a prescribed function. An
approximate method has been proposed for determining dimensions of particles with
the greatest contribution to scattering.

[Abstracter's note. Complete translation] *✓4*

Card 1/1

ACCESSION NR: AP3004323

S/0033/63/040/004/0678/0681

AUTHOR: Alduseva, V. Ya., Glushneva, I. N.

TITLE: Emission lines of the Beta Lyr envelope in the ultraviolet spectral region

SOURCE: Astronomicheskiy zhurnal, v. 40, no. 4, 1963, 678-681

TOPIC TAGS: Beta Lyr, Beta Lyr envelope, envelope, emission line, ultraviolet spectral region, He I, Lagrange point, second Lagrange point, optical thickness, ionized titanium, gas flow

ABSTRACT: Altogether 45 spectrograms have been obtained of β Lyr with the slitless ASI-5 spectrograph mounted at the High Altitude Station of the Gosudarstvennyy astronomicheskiy institut im. Shternberga (State Astronomical Institute). The station is located near Alma-Ata at a height of 3000 meters. The emission lines of neutral helium and ionized titanium of the β Lyr envelope in the investigated spectral region $\lambda\lambda 3600-3000$ are identified. The equivalent widths of emission line He I 3188 Å, reduced to the continuum at maximum brightness, are determined at different phases of the eclipse. An intensity increase

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ACCESSION NR: AP3004323

of the line at principal and secondary minimum is noted. The increase at secondary minimum is connected with the flow of gas from the envelope of the envelope of the system near the second Lagrange point L₂. The results are compared to observations of other authors of He I 3889 Å, belonging to the same triplet. The intensity increase of λ 3188 Å at secondary minimum and the absence of an increase of 3889 Å at this same phase is explained by different optical thicknesses in the center of the line ($\tau \sim 10$ for λ 3889 Å and $\tau \sim 5$ for λ 3188), which leads to the effective formation of these lines in different layers of the envelope. Orig. art. has: 1 figure and 1 table.

ASSOCIATION: Gos. astronomicheskiy in-t im. P. K. Shternberga (State Astronomical Institute)

SUBMITTED: 07Jul62

DATE ACQ: 20Aug63

ENCL: 00

SUB CODE: 00

NO REF. Sov: 002

OTHER 007

Card 2/2

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515430004-9

GLUSHNEVA, I.N.

Dependence of Venus albedo on the wave length in the ultraviolet
spectrum region. Soob. GAISH no.133:37-43 '64.
(MIRA 17:8)

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515430004-9"

"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515430004-9

THE JOURNAL OF CLIMATE

For more information about the National Institute of Child Health and Human Development, please call the NICHD Information Resource Center at 301-435-2936 or visit the NICHD Web site at www.nichd.nih.gov.

...Gesamtzahl der im Krieg verlorenen und vermissten Soldaten.

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515430004-9"

GLUSHNEVA, I.N.

Spectrophotometry of some hot stars in ultraviolet, Astron. zhur.
41 no.2:212-222 Mr-Ap '64. (MIRA 17:4)

l. Gosudarstvennyy astronomicheskiy institut im. P.K.Sternberga.

ACCESSION NR: AP4043958

S/0033/64/041/004/0720/0723

AUTHOR: Glushneva, I. N.

TITLE: Dependence of the albedo of Venus and Jupiter on wavelength in the ultraviolet region of the spectrum

SOURCE: Astronomichesky zhurnal, v. 41, no. 4, 1964, 720-723

TOPIC TAGS: Venus, Jupiter, spectrograph, planetary albedo, ultraviolet spectral region

ABSTRACT: The dependence of the albedo of Venus and Jupiter on wavelength in the ultraviolet region of the spectrum (4500-3200 Å) was investigated in Jan. - Feb. 1963 using the ASI-5 slitless spectrograph of the Vy'sokogornaya stantsiya GAISh (High-Mountain Station of the State Astronomical Institute) near Alma-Ata at an elevation of 3,000 m. The dispersion at H γ was 150 Å/mm and at 3000 Å was 50 Å/mm. On seven nights 30 spectrograms of Venus were obtained and on four nights 10 spectrograms of Jupiter were obtained. The comparison stars were α Lyr and α UMa. The spectra of the planets and comparison stars were photographed with an exposure of 1 minute on Astro-Platten plates. Fig. 1 of the Enclosure shows the dependence of the albedo of Venus and Jupiter on wavelength. The albedo of Venus decreases slightly with a decrease of wave-

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ACCESSION NR: AP4043958

length; near 3500 Å and 4100 Å there are two minima. In the interval 4500-3700 Å the albedo of Venus decreases by a factor of 1.3. The dependence of the Venusian albedo on wavelength is in good agreement with the results of photometric measurements of the brightness of Venus in the U, B, V system. The variation of the Venusian albedo contradicts Kozy*rev's data (N. A. Kozy*rev, Izv. Kry*msk. astrofiz. obs., 12, 177, 1954).

Kozy*rev found that in the range of wavelengths from 4500 to 3800 Å the Venusian albedo decreases by a factor of 4, whereas in the region 6500-4500 Å it decreases only by a factor of 1.5. The curve of the albedo of Jupiter in the considered range of wavelengths differs from that of Venus. The albedo minimum at 4100 Å is lacking for Jupiter. At 3900 Å the albedo begins to decrease and in the interval 3900-3500 Å it decreases by a factor of 1.5. At 3500 Å the Jovian albedo has a minimum; with a further decrease in wavelength the albedo begins to increase. Orig. art. has: 2 formulas, 1 figure and 1 table.

ASSOCIATION: Gosudarstvenny*y astronomicheskiy institut imeni P. K. Shternberga
(State Astronomical Institute)

SUBMITTED: 11Oct63

ENCL: 01

SUB CODE: AA

NO REF SOV: 004

OTHER: 004

Card 2/3

ACCESSION NR: AP4043958

ENCLOSURE: 01

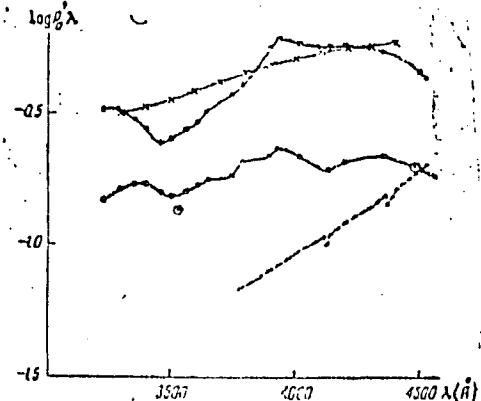


Fig. 1. Curves of the albedo of Venus and Jupiter in the UV region of the spectrum. The upper solid curve is the albedo of Jupiter. The crosses are the results obtained by Younkin (R. L. Younkin, Spectral energy distributions of the major planets, Liege, Symposium 1962, p. 125). The lower solid curve is for the albedo of Venus. The dashed lines give the results obtained by Kozyrev (reference in text of abstract). The circles denote the results of a photometric study of Venus in the U, B, V system (C. F. Knuckles, M. K. Sinton and W. M.

Card 3/3 Sinton, Low. Obs. Bull., V, 115(10), 153, 1961).

GLUSHEVA, I.V.

2. USSR Materials for the preparation of the plan to increase
Vid-Li. Archiv. plan. 12/1961. 1960-32. 3a-2. Topo
(cont'd. page 2)

3. Second reworking and reclassification of the Vid-Li. Materials
for the preparation of the plan to increase
Vid-Li. Archiv. plan. 12/1961. 1960-32. 3a-2. Topo
(cont'd. page 3)

L 22669-66 EWT(1) GM
ACC NR: AP6006775

SOURCE CODE: UR/0033/66/043/001/0080/C082

AUTHOR: Glushneva, I. N.

ORG: State Astronomical Institute im. P. K. Shternberg (Gos. astronomicheskiy in-t)

TITLE: The ultraviolet spectral energy distribution of four stars

SOURCE: Astronomicheskiy zhurnal, v. 43, no. 1, 1966, 80-82

TOPIC TAGS: spectral energy distribution, star, UV spectroscopy, spectrophotometry/ASI-5 spectrograph

ABSTRACT: This work is a continuation of previous spectrophotometric investigations of stars of early spectral classes in order to determine the energy distribution in their spectra in absolute energy units. Spectrograms of four stars (β Ari, β Tau, γ UMa, and η UMa) were obtained with a non-slit ASI-5 spectrograph at the high-altitude expedition station of the Sternberg Astronomical Institute in the vicinity of Alma Ata (3000 m). Observations were made in June-August 1964. The telescope had a 250-mm mirror. Dispersion at the H γ line was 150 Å/mm; at

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UDC: 523.87

L 22669-66
ACC NR: AP6006775

300 Å it was 50 Å/mm. The energy values for the four stars at 18 different wavelengths from 3020 to 4650 Å are tabulated. The data obtained are in good agreement with the absolute measurements of Kharitonov and other authors. They also agree with rocket data obtained at the Goddard Center of NASA and other rocket data. Orig. art. has: 1 figure and 2 tables.

SUB CODE: 03/ SUBM DATE: 21Sep65/ ORIG REF: 002/ OTH REF: C05

Card 2/2 *ju*

KOROBKINA, G., kand.tekhn.nauk, nauchnyy sotrudnik; GLUSHNEVA, Z., inzh.-
tekhnolog

Diet in arteriosclerosis. Obshchestv.pit. no.1:49 Ja '60.
(MIRA 13:5)

1. Institut pitaniya AMN SSSR (for Korobkin).
(Diet in disease) (Arteriosclerosis)

KOROBKINA, G., nauchnyy sotrudnik; GLUSHNEVA, Z., inzh.-tekhnolog

Diet in arteriosclerosis. Obshchestv.pit. no.2:48-50 F '60.
(MIRA 13:6)

1. Institut pitaniya AMN SSSR (for Korobkina).
(DIET IN DISEASE)

KOROBKINA, G.S.; NEMENOVA, Yu.M.; PARAMONOVA, E.G.; GVOZDOVA, L.G.
GLUSHNEVA, Z. Ya.

Effect of diets of different qualitative composition on the
clinical course of disease and lipid metabolism in patients
with coronary atherosclerosis. Vop. pit. 22 no.1:17-22 Ja-F'63
(MIRA 16:11)

1. Iz Instituta pitaniya AMN SSSR, Moskva.

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"APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515430004-9

POKROVSKY, MIKHAIL V., BORIS A. SOKOLOV, AND
M. M. K. ANDREYEV, JR.

Bellip, a protein present in the plasma membrane of the
Acidophae of Leptothrix-like virus, is a member of the
group I.

• Institut of Multiple Sclerosis, Moscow

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515430004-9"

KOROBKINA, G.S.; NELENKOVA, Yu.M.; PAVLOVSKA, E.G.; GVOZDIEVA, L.G.;
KALININA, N.N.; GLUSHKOVA, T.Ya.; TIMAKINA, T.I.; MIREK, M.L.

Effect of a phosphatide-enriched diet on cholesterol metabolism in
patients with a history of myocardial infarct. Vop. pit. Z3 no.2:
49-53 Mr-Ap '64. (MIRA 17:10)

1. Iz serdechno-sosudistogo otdeleniya kliniki lechabnogo pitaniya
(zav. - doktor med. nauk V.P. Sokolovskiy), otdela tekhnologii
(zav. - prof. D.I. Lobanov) i otdela fiziologii (zav. - chlen-korres-
pondent ANN SSSR prof. O.P. Molchanova) Instituta pitaniya AMN SSSR,
Moskva.

LUBER, V.A.; GYES, G.N.; SORKIN, S.P.; RICHLIN, Yu.M.; GLUSHKOY, M.V.;
NAM, B.P.; LIPSHOVA, M.P.; TELCH, A.A.; PETHAKS, O.S.;
ADRIANOVA, V.P.

Smelting high-grade steel in open-hearth furnaces fired with
natural gas. Stal' 20 no. 7:599-602 J1 '60. (MIR 14:5)
(Open-hearth furnaces--Equipment and supplies)

ПЕЧАЕВ, Н.Н.; АНКИДИН, А.Р.; ИЛЮХИН, В.А.; ПОДДЕЛЬНИК, Е.П.;
СИЧЕНКОВ, М.В.; ЛЕЩЕНКО, А.А.; СИДОРЧУК, Г.А.

Block 1 unit of the upper structure of open-hearth furnaces.
Ogneupory 30 no.11:8-10 1965. (MIRA 18:11)

1. Vsesoyuznyy institut ogneupory (for Tlachev, Ankidin).
2. Volgogradskiy metallurgicheskiy zavod "Krasnyy Oktyabr"
(for Sorokin, Brozhevskiy, Glinitskiy, Larionov, Kerlitin).

GLUSHCHÉV, M. V.

REPORT OF RESEARCH
A. N. GOR'KOV

AUTHORS: Gor'kov, A. N., Kuz'michev, Yu. V., Serein, V. I., Glushchëv,
V. V., Savay, V. I., G. A. Kuz'min, M. V.

TITLE: The effect of rare-earth elements on the magnetic properties of iron
alloyed with it.

INSTITUTION: M. V. Lomonosov Moscow State University

TEXT: In the present work a detailed study of the influence of the
rare-earth elements on the magnetic properties of iron was carried out.
The samples were obtained by the vacuum induction method. The measurements
were conducted by D. N. Ponomarenko, L. F. Kostyleva, D. V. Kostylev,
S. V. Kostylev, G. R. Spivakovskii, V. A. Grigoriev, and V. V. Savay. They studied the
effect of the content of rare-earth elements on the magnetic properties of solid solutions
in iron and the effect of the temperature on magnetic properties in alloy with
20% and more of these elements. The results show that the content of rare-earth elements
in the given amounts will eliminate a fear of the
steel; on the other hand, the increasing quantity of rare-earth elements in iron

Card 1/2

The effect of water on the film thickness

the first stage of differentiation is the formation of a primary root system which originates in the apical region of the embryo. This primary root system is composed of a central axis, the radicle, and a number of smaller roots called the plumules. The radicle is the main axis of the root system, and it grows downwards through the soil. The plumules are smaller roots that branch off from the radicle and grow upwards towards the surface of the soil. The primary root system is responsible for absorbing water and nutrients from the soil. It also provides a anchor for the plant to hold it in place. The primary root system is typically composed of a central axis, the radicle, and a number of smaller roots called the plumules. The radicle is the main axis of the root system, and it grows downwards through the soil. The plumules are smaller roots that branch off from the radicle and grow upwards towards the surface of the soil. The primary root system is responsible for absorbing water and nutrients from the soil. It also provides a anchor for the plant to hold it in place.

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CIA-RDP86-00513R000515430004-9

GLUSKER, B. and KRYLOV, P.

"The System of National Economic Plan Indexes," Planovoye Khozyaystvo, No 5, pp.
76-86, Moscow, 1954

Translation No 395, 4 May 55

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515430004-9"

KRASYAKOVA, L.Yu., kand. tekhn. nauk; GLUSKEM, B.N., inzh.

Stability of a flow in U-shaped panels of once-through-type
boilers. Teploenergetika 10 no.11:41-46 N '63,
(MIRA 17:1)

1. TSentral'nyy kotloturbinnyy institut.

"APPROVED FOR RELEASE: 09/24/2001

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CIA-RDP86-00513R000515430004-9

KRASYAKOVA, I.Yu., kand. tekhn. nauk; GLUSKER, B.N., inzh.

Study of the hydraulics of a flow in π -shaped pipes at near critical
and supercritical pressures. Energomashinostroenie 11 no.9:18-21 S
'65. (MIRA 18:10)

APPROVED FOR RELEASE: 09/24/2001

CIA-RDP86-00513R000515430004-9"

CHADAYEV, Yakov Yermolayevich; GLUSKER, B.Ya., red.; KONIKOV, L.A., red.;
PONOMAREVA, A.A., tekhn.red.

[Problems in planning the national economy] Voprosy planirovaniia
narodnogo khoziaistva. Moskva, Gosplanizdat, 1961. 176 p.

(MIRA 14:6)

1. Zamestitel' predsedatelya Gosplana RSFSR (for Chadayev).
(Russia—Economic policy)

GLUGKEI, Boris Yakovlevich; DZOVONSKIY, L.Ya., red.; MISHRAYEVSKAYA,
G.V., moshchnyy red.; GELASHVILI, Ye.S., tekhn. red.

[Methodology for computing plan indices; problems of improving
the index system] Metodologiya postroeniia pokazatelei
plana; voprosy uovershenstvovaniia sistemy pokazatelei. Mo-
skva, Ekonomizdat, 1963. 149 p. (MKR 17:1)

GLUSKER, Il'ya Yakovlevich; MANUILOV, Lev Aleksandrovich; YAKOVLEV, K.F.,
red.; KOZHEMYAKINA, V.P., tekhn.red.

[The Yaroslavl Economic Region] Jaroslavskii ekonomicheskii raion.
Jaroslavl', Jaroslavskoe knizhnoe izd-vo, 1958. 52 p.
(MIRA 13:3)
(Yaroslavl Province--Industries)

KOTLYARENKO, B.M.; GENSKER, N.S.

Status of dispensary treatment of diabetic patients in Gomel Province. Zdrav.Belor. 8-9-1981-12-1980. (MIRU 10:6)

1. Iz Gomel'skogo oblastnogo epidemio-epidemiologicheskogo dispeksiona
(glavnyy vrach B.M.Kotlyarenko).
(GOMEL PROVINCE--DIABETES)

GLUSKER, M.S.

Dispensary treatment of diabetes patients with sulfanilamide preparations. Zdrav. Belor. 5 no.10:20-22 0 '59. (MIR 13:2)

1. Iz Gomel'skogo oblastnogo endokrinologicheskogo dispansera (glavnyy vrach B.M. Kotlyarenko).
(SULFONAMIDES) (DIABETES)

KOTLYARENKO, B.M.; GLUSKER, M.S. (Gomel')

Case of acromegaly with manifestations of virilism and diabetes insipidus for 32 years with preservation of the menstrual cycle for 38 years. Probl.endok.i gorm. 5 no.6:110-111 N-D '59.

(MIRA 13:5)

1. Iz Gomel'skogo oblastnogo protivozobnogo dispansera (glavnnyy vrach B.M. Kotlyarenko).

(ACROMEGALY case reports)

(VIRILISM case reports)

(DIABETES INSIPIDUS case reports)

(MENSTRUATION)

KOTLYARENKO, B.M.; GLUSKER, M.S.

Work of the polyclinical department of the Gomel' Province Goiter Prevention Dispensary in 1957-1958. Zdrav. Belor. 6 no. 10:30-32 O '60.
(MIR 13:10)

1. Iz Gomel'skogo oblastnogo protivozobnogo dispensera (glavnnyy vrach B.M. Kotlyarenko).
(GOMEL' PROVINCE--GOITER)

MAL'TSEVA, A.A.; GLUSKER, M.S., vrach-endocrinolog

Diabetic coma. Zdrav. Bel. 7 no. 2:53-54 F '61. (MIRA 14:2)

1. Zaveduyushchaya terapeuticheskim otdeleniyem Khoynikskoy
rayonnoy bol'nitsy (for Mal'tseva). 2. Gomel'skiy oblastnoy
protivozobnyy dispanser (for Glusker).
(DIABETES)

KOTLYARENKO, B.M.; GLUSKER, M.S.

Hormone-producing tumor of the ovary in a 7-year-old girl.
Probl.endok.i gorm. 7 no.2:98-99 '61. (MIRA 14:5)
(OVARIES-TUMORS)

KOTLYARENKO, B.M., vrach; GLUSKER, M.S., vrach; TAMARKIN, I.D., vrach;
KRASOVSKIY, V.A., vrach

Results of a house-to-house study of the population for goiter incidence.
(MIA 14:10)
Zdrav. Bel. 7 no.9:63-64 S '61.

1. Iz Gomel'skogo oblastnogo protivozobnogo dispansera (for Kotlyarenko,
Glusker, Tamarkin). 2. Respublikanskiy protivozobnyy dispanser,
Belorussiya (for Krasovskiy).
(GOMEL' PROVINCE--GOITER)

KOZLOV, N.P.; GLUSKER, M.S.; LIBERMAN, B.L.

Goiter of large dimensions in a stillborn child. Idiav. bel.
8 nov. 64 Ja '62. (MIRA 15:3)

1. Iz Lel'chitskoy rayennoy bol'nitsy (glavnuyy vrach N.P.
KozJov).

(GOITER)

KOTLYARENKO, B.M., vrach; GLUSKER, M.S., vrach; TAMARKIN, I.D., vrach;
GRUDTSYN, A.V. vrach (Gomel')

Endemic goiter in Gomel' Province. Sov. zdrav. 21 no. 945-47162
(MIRA 17:4)

1. Iz Gomel'skogo oblastnogo prof'vosobchego dispensera (glavnyy
vrach - B.M.Kotlyarenko).

GLUSKER, R.V.; GROMOVA, I.I.

Clinicopathoanatomical characteristics of a case of strongyloidosis.
Med.paraz. i paraz.bol. 25 no.4:305-308 O-D '56. (MLRA 10:1)

1. Iz terapevticheskogo otdeleniya (zav. Ye.S.Brusilovskiy) i patologo-anatomicheskogo otdeleniya (zav. M.V.Aref'yeva, konsul'tant - prof. M.K.Dal') Dorozhnoy bol'nitsy No. 2 Yugo-zapadnoy zheleznoi dorogi (nachal'nik bol'nitsy G.I.Zubkov)
(STRONGYLOIDIASIS, case reports, clin. aspects & histopathol. (Rus))

GLUSKER, Ya., inzh.; SEMENOV, L., inzh.

Some regularities in the wear of medium trawler hulls. Mor. flot
23 no.6:27-29 Je '63. (MIRA 16:9)
(Hulls (Naval architecture)--Corrosion)
(Trawls and trawling)

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100% (100% 100%)

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CIA-RDP86-00513R000515430004-9"

GLUSKIN, A.Ya., kand. tekhn. matk; STEPANOV, V.I., inzh.;
BORDACHENKOV, A.M., inzh.

Static voltampere characteristics of a slide contact. Vest.
elektroprom. 34 no.7:44-47 Jl 1(3). (MIRA 16:8)

GLUSKIN, A.Ya., kand.tekhn.nauk; BOZHACHENKOV, A.M., inzh.; STEPANOV,
V.P., inzh.

Performance of the brush contact of electrical machines at increased current densities. Elektrotehnika 34 no.9:20-25 S '63.
(MIRA 16:11)

Nature of the phases formed by the mutual diffusion of copper-zinc and iron-zinc and the kinetics of their growth. V. Buzukov and D. Gluskin. *J. Tech. Phys.* U.S.S.R. 10, No. 80 (1960). The nature of the various phases present was determined by microstructural analysis and chem. analysis both of the solid and the liquid phases. From the kinetic of the growth of the γ phase at 400-600°, the coeff. of diffusion is found to obey the law $D \propto A^{1/2}$ both for solid solutions and for the transformation from the liquid to the solid state of low-melting alloys. With Fe-Zn, the ϵ phase FeZn and the γ phase Fe₂Zn were formed at 600°, with the resp. crystal lattice dimensions $a = 2.70$ and 8.90 \AA , resp. The Q values are 41,000, 15,200 for Cu-Zn and 17,700 for Fe-Zn. A large no. of x-ray data are given for the various phases of each alloy system. F. H. Rathmann

5
19

The Dissolution of High-Melting-Point Metals and Alloys in Low-Melting-Point Metals and Alloys. M. G. Oknov and D. Ya. Gluskin. (Metallurg, 1938, No. 12, pp. 7-20). (In Russian). The authors carried out an extensive series of experiments by immersing a sample (about 5 g.) of the high-melting-point alloy or metal supported on an iron wire in about 40 g. of the molten low-melting-point alloy or metal contained in a 25 c.c. graphite crucible, keeping the whole at a definite temperature for a definite time and then allowing to cool. The solidified contents of the crucible were then sawn through and examined microscopically, the nature and position of the products of reaction being noted. The combinations investigated included: iron in aluminium-magnesium, iron in zinc-aluminium, iron and nickel in zinc and iron and nickel in aluminium as well as several combinations of non-ferrous metals. They discuss their observations at considerable length from the phase-diagram point of view and also from the point of view of the heat of formation of intermetallic phases. When high-melting-point pure metals are acted upon by low-melting-point alloys, the phases formed are determined primarily by their heat of formation, those with the maximum thermal effect being the most readily formed. This is not the case when high-melting-point alloys are acted upon by molten pure metals. In such cases an excess of one of the metals in the alloy and the rate of solution of the phases formed are the controlling factors.

PROCESSES AND PROPERTIES OF...

Nature and kinetics of growth of the intermetallic phases produced in the course of interdiffusion of metals. V. S. Bugakov and D. Ya. Gluskin. *J. Tech. Phys.*, U. S. S. R., 9, 1293-1301 (1939); cf. *C. A.* 30, 7072. At the boundary between Cu and Cd above 400° the compound CuCd₁ and below 400° also a narrow layer of Cu₃Cd₂ is formed. Ag and Zn at 400-450° give AgZn, Ag₃Zn and AgZn₂. Ag and Cd produce AgCd and Ag₃Cd. Apparently the formation of phases having high heats of formation is favored. The thickness of the diffusion layer increases linearly with the square root of time. The rate of its growth is given for various phases and temperatures. Micro-sections and x-ray patterns were used. L. J. B.

ASM-SEA METALLURGICAL LITERATURE CLASSIFICATION

1.2

CA

The nature of phases resulting from the mutual action of metals and alloys with a high melting point with low-melting metals and alloys D. Ya. Ghuskin, J. Tsek, *Pkzi.* (U. S. S. R.) 10, 1486-1501 (1920). The nature of phases in the 3-component alloys was studied by the methods of (1) microstructure, (2) x-rays, (3) chem. analyses and (4) measurements of hardness. The following systems were investigated: Cu-(Zn + Sn), Fe-(Zn + Al), (Fe + Ni)-Al, (Fe + Ni)-Zn, (Cu - Ni)-Sn and (Cu + Ni)-Zn. All phases represent products of the reaction, and phases which are not in equil. with the liquid are also present. The main factor which决定了 the character of phase is the heat of formation. An important role is also played by the mutual solv. of intermetallic compds. Most phases possess a "critical compn." corresponding to the interchange of phases. This "critical compn." is a function of temp.

ASA-1A METALLURGICAL LITERATURE CLASSIFICATION

GLUSKIN, D. YA.

PA 156T69

USSR/Metals - Solids, Diffusion
Intermetallic Compounds

Feb 50

"Reactive Diffusion in Metals," D. Ya. Gluskin, Lenin-
grad Ship Constr Inst, 7 pp

"Zhur Tekh Fiz" Vol XX, No 2

Accurately determines nature of phases produced during mutual diffusion. Shows that interaction of elements in the case where they form a number of intermetallic compounds is initiated by a chemical reaction whose product is that compound possessing greatest heat of formation. Includes constitution diagrams and microphotographs for Cu-Zn and Cu-Sn. Submitted 28 Sep 48.

156T69

G L U S K I N , D. V.

Effect of the Allotropic Forms of Iron on the Nature of the Diffusion of Aluminum into Them. D. Yu. Gluskin (Zhur. Tekhn. Fiziki, 1953, 23, (6), 833-837; U. S.S.R., 1955, 49, 7470).—[In Russian]. A study carried out on Azenco Fe, steel VDA, and an Fe-Ni alloy contg. 10% Ni is reported. The samples, 4 mm. in dia. and 20 mm. high, were immersed in molten Al and maintained at various temp. for 10 min. Polished sections were then prepared from the treated samples, and their microstructures studied at the metal/liq. Al boundary. The crystal structures at the boundaries were studied by means of X-rays.

1. 1500

88686

S/137/61/000/001/022/043
A006/A001

Translation from: Referativnyy zhurnal, Metallurgiya, 1961, No. 1, p. 10, # 1E75

AUTHORS: Bel'chuk, G.A., Gluskin, D.Ya., Fedorov, N.A.

TITLE: On the Problem of Welding Aluminum and Its Alloys With Steel

PERIODICAL: "Tr. Leningr. korablestroit. in-ta", 1959, No. 29, p. 257

TEXT: Information is given on experimental argon-arc building-up and welding of Al and its alloys (AMg-6T (AMg-6t) type) with steel on whose surface a 0.1 mm thick Al, 0.04 mm thick Zr or 0.02 - 0.05 mm thick Ni layer had been previously applied. The following welding technology is recommended: an Al layer is applied on the steel surface by "allitization" (allitirovaniye) or a Zn layer by hot zincing. On this surface a 20 - 25 mm wide Al layer is welded (3 - 4 beads); then Al or its alloys are welded on the built-up layer by any type of joint. The average tensile or shearing strength of a welded joint is 9-11 kg/mm² at an Al-coating and 4-8 kg/mm² at a Zn-coating. The strength of the joint is reduced when welding without preliminary building-up. V. B.

Translator's note: This is the full translation of the original Russian abstract.
Card 1/1

S/120/01/000/003/006/011
E073/E553

AUTHOR: Gruskin, D. M. Candidate of Technical Sciences

TITLE Influence of Preliminary Chemical Heat treatment
of Iron and Steel on the Interaction with Liquid
Zinc

PERIODICAL Metalovedeniye i termicheskaya obrabotka
metallov, 1961, No. 3, pp. 35 - 40

TEXT The work was carried out for the purpose of studying the possibilities of reducing the solubility of iron and steel in liquid zinc since the problem is important from the point of view of manufacturing hot-dip zinc coating equipment. In the experiments iron and steel were saturated with Cr and Si for the purpose of studying their influence on the interaction between iron and steel and liquid zinc. Pure iron and steel with 0.7-0.9 and 1.2% and chromium all pure (99%) Zn were used. Specimens 1 mm in diameter and 20 mm long were produced from the pure and saturated. After the chromizing of the specimens was an electrolyte containing 7.5% raw carbon ferrochromium (70% Cr), 2.5% chromium oxide and 4% ammonium

Card 174

S/19/64/009/005/006/011
E073/E333

Influence of . . .

chloride. Saturation with Si was by means of a mixture containing 71% ferrosilicon (90% Si), 25% aluminum oxide and 4% ammonium chloride. For investigating the influence of pure chromium on the interaction of iron and steel with molten zinc some specimens were subject to electrolytic chromising. Coatings of palladium (Si) down to 0.25 mm thick were obtained. Interaction with liquid zinc was studied for these specimens as well as for specimens without preliminary chemical heat treatment. For this purpose zinc was melted in a porcelain crucible and into the molten zinc specimens wetted with zinc chloride were lowered (batch temperature 500 °C) for durations of 3 to 10 hours. It was found that for all the specimens the solubility of the metal in the liquid zinc increases with increasing interaction time. In the case of a 10-hour soaking the width of the Fe-Zn₂ diffusion layer on the iron surface was 0.3 mm and on the surface of the steel 3.26 mm; it was 2 mm. Therefore the cross section of the specimens affected by 5% chromised iron and steel dissolved in zinc in a similar manner.

Card 274

S429761/0007005/006/011
E0757E555

Influence of ...

- nonchromised steel. The following conclusions are arrived at:
- 1) during interaction of commercial iron and steel with liquid zinc the solubility of the metal in liquid zinc increases with increasing carbon content.
 - 2) Preliminary silicon cementation increases the solubility of iron and steel in liquid zinc - the higher the carbon content the more will silicon cementation reduce the resistance to dissolution.
 - 3) Diffusion chromising of iron and steel (0.3% C) does not ensure protection against dissolution in liquid zinc and diffusion chromating steel with 0.5 and 1.0% C increases the resistance of the steel to dissolution in liquid zinc. In steel with 0.5% C individual foci of dissolution can be observed after soaking for a long time in liquid zinc; however, in steel with 1% C no signs of dissolution were observed even after long periods of soaking.
 - 4) The diffuse chromium had an epipureal effect on steel specimens submerged in liquid zinc and this is attributed to the unequal chemical composition occurring in the chromising

Card 5/4

Influence of ...

S7129/61/000/005/006/011
EO73/E333

phases.

5) Electrolytic chromising of iron and steel does not ensure protection from the effect of liquid zinc.
There are 3 figures, 4 tables and 2 references. 3 Soviet and 1 non-Soviet.

ASSOCIATION

Leningradskiy korablestroitelnyy institut
(Leningrad Shipbuilding Institute)

Card 4/4

BEL'CHUK, G.A.; GLUSKIN, D.Ya.; FEDOROV, N.A.

Welding aluminum and its alloys to steel. Trudy LKI no.34:
15-22 '61.
(MIRA 15:3)

1. Kafedra svarki sudovykh konstruktsiy Leningradskogo
korablenstroitel'nogo instituta (for Bel'chuk). 2. Kafedra
metallovedeniya Leningradskogo korablenstroitel'nogo instituta
(for Gluskin).

(Aluminum--Welding) (Steel--Welding)

GLUSKIN, Elya Yakovlevich; POLYAKOV, Nikolay Viktorovich; TROYNIN,
Mitrofan Fedorovich; USHAKOV, Nikolay Nikolayevich; USHAKOV,
Nikolay Stepanovich; SEYRANYAN, R.M., inzh., retsenment;
NEFEDOV, P.K., inzh., red.; YURKEVICH, M.P., red. iad.vaz;
POL'SKAYA, R.G., tekhn.red.

[Over-all mechanization and automation of internal transportation
in instrument plants] Kompleksnaya mekhanizatsiya i avtomatisatsiya
vnutrizavodskogo transporta v priborostroenii. By N.I.A.Gluskin
i dr. Moskva, Mashgiz, 1961. 326 p. (MIMA 14:12)

(Instrument industry) (Automation)
(Conveying machinery)

GLUSKIN, E.Ya.; POLYAKOV, N.V.; TROYNIN, N.F.; USHAKOV, N.S.;
NEFEDOV, P.K., inzh., red.

[Overall mechanization and automation of intraplant
transportation in instrument plants] Kompleksnaya me-
chanizatsiya i avtomatizatsiya vnutriscyvishkogo trans-
porta v priborostroenii. z., izd., ispr. i sl. p. Mys-
skaya, Mashinostroenie, 1964. 288 p. (MIA : 7. 11)

GLUSKIN, I.I. (Omsk)

Fixation of plastic in a combined bridge. Stomatologija 36 no.3:73
My-Je '57. (MIR 10:9)
(DENTAL PROSTHESIS) (PLASTICS)

FREYTSIS, Iosif Davidovich; GLUSKIN, I.M., Inzh., retsentent;
NAKHOVSKAYA, L.M., Red.

[Centralized temperature regulation and control systems
in manufacturing rubber and plastic articles] Tsent-
ralizovannye sistemy regulirovaniia i kontroli tempera-
tury pri proizvedstve izdelii iz resiny i plasticheskikh
mass. Moskva, Izd-vo "Legknaia industriia," 1961, 121 p.
(MI-A 17:5)

GLUSKIN, L.I., gornyy inzhener

Improving technology and increasing labor output. Gor.zhur. no.1:17-
22 Ja '55. (MIRA 8:7)
(Komsomolskoye--Mine haulage) (Excavating machinery)

GLUSKIN, L.I.

Automatic metal detection at the Kara Kub crushing and ore dressing plant. Gor. zhur. no.1:75-77 Ja '57. (MLBA 10:4)

1. Glavnnyy inzhener Karakubskogo rudoupravleniya.
(Komsomol'skoye--Limestone) (Ore dressing)

GJ/GKII 7 /

SURJECT: USGR/Mining

127-10-22/24

AUTHOR: Gluskin, L.I., Engineer

TITLE: Improvement of Water Supply for Percussive-Rope Boring
Machines (Ratsionalizatsiya snabzheniya vodoy stankov udarno-
kanatnogo bureniya)

PERIODICAL: Gornyy Zhurnal, 1957, # 10, p 77 (USSR)

ABSTRACT: In the Karakub Mining Administration, the water consumption amounts to 25 to 65 liters per meter of bore hole for blasting operations. The total consumption is on the average 18 cu m per shift.

It was found out that the most expedient method of water supply was to bore special water wells. One or two of these wells were needed to ensure the water supply for a 300 m long, section of the open mine.

A portable installation for water delivery by gravity to the bore holes was designed and constructed in the mine. Its weight is 2.5 tons and it is shifted by means of a bulldozer.

Comparing various water supply methods, the author concludes

Card 1/2

127-10-22/24

TITLE: Improvement of Water Supply for Percussive-Rope Boring
Machines (Ratsionalizatsiya snabzheniya vodoy stankov udarno-
kanatnogo bureniya)

that the method described is the most advantageous and reliable
for operation under any weather conditions.

The article contains 1 figure.
No references are cited.

ASSOCIATION: Karakub Mining Administration (Karakubskiy rudoupravleniye)

PRESENTED BY:

SUBMITTED: No date indicated

AVAILABLE: At the Library of Congress

Card 2/2

GLUSKIN, L.I., inzh.

Operations of the Karakub Mine Administration. Biul. TSNIICHM
no. 10:1-7 '58. (MIRA 11:7)
(Stalino Province--Limestone)

GLUSKIN, L.I.

Eliminate errors in designing ore-dressing plants. Bezop. truda v prom.
2 no.11:16 N '58. (MIRA 11:11)

1. Glavnyy inzhener Karakubskogo rudoupravleniya.
(Ore dressing)

GLUSKIN, L.I.

Mechanization of charging operations in blasting. Ugol' 34 no.9:59-60
S '59. (MIRA 12:12)

1.Glevnyy inzhener Karakubskogo rudoopravleniya.
(Coal mines and mining--Explosives) (Materials handling)

GLUSKIN, L.I., inzh.; KHAR'KOVSKIY, V.Ya., inzh.

Automatically controlled equipment for water feed by gravity to
percussive cable drilling machines. Gor.zhur. no.9:73-74 S
'60. (MIRA 13:9)

1. Karakubskoye rudoupravleniye, Stalinskaya oblast'.
(Boring machinery) (Automatic control)

GLUSKIN, L.I.

Increasing the serviceability of conveyor belts at the Karakubskaya
Crushing and Ore-dressing Plant. Vop.rud. transp. no.4:152-158 '60.
(MIRA 14:3)

1. Karakubskoye rudoupravleniye.
(Komsomolskoye (Stalino Province)—Conveying machinery)

GLUSKIN, L. I., Cand Tech Sci -- "Study of the technology
of blasting in open-pit mining of flux limestone." Mos,
1961. (Inst of Min-Enterprise im A. A. Skochinskiy) (KL,
8-61, 242)

- 214 -

GLUSKIN, L.I., gornyy inzhener

Improving boring and blasting operations in mines of the Karakutskiy
Mining Administration. Vzryv. delo no.47/4:5-20 '61. (MIRA 15:2)

1. Karakubskoye rudoupravleniye.
(Komsomol'skoye region (Donetsk Province)--blasting) (boring)

NOVOZHILOV, V.G., prof.; KUCHERYAVYY, F.I., dotsent; KHODAKOVSKIY, Yu.F.,
fornyy inzh.; GLUSKIN, L.I., fornnyy inzh.

Optimum parameters of boring and blasting operations and their
effect on rock breaking by blasting. Vzryv. i delo no.47/4:197-204
'61. (MIRA 15:2)

(Blasting) (Boring)

NOVOZHILOV, M.G., prof., doktor tekhn. nauk; SELYANIN, V.G.; TARTAKOVSKIY, B.N.; Prinimali uchastiye: PONELKIN, G.D., inzh.; ESKIN, V.S., inzh.; SHARKOV, A.M., kand. tekhn. nauk; BORISYUK, R.F., inzh.; ABDUFATTAKHOV, A.A., inzh.; ANDRIYENKO, A.F., inzh.; KITIOKOV, P.M., inzh.; GLUSKIN, L.I., inzh.; LEVCHENKO, N.K., inzh.; GAVRILYUK, I.I., inzh.; SHPEKTOROV, Yu.Z., inzh.; KOCHENGAGA, N.T., red.; GORKAVENKO, L.I., tekhn. red.

[New technical methods and equipment in open-pit mining of mineral deposits] Novaia tekhnologiya otkrytoi razrabotki nestorozhdenii poleznykh iskopaerykh. Pod obshchei red. M.G.Novozhilova. Kiev, Gos.izd-vo tekhn. lit-ry USSR, 1961. 205 p.

(MLA 15:5)

(Strip mining)

NOVOZHILOV, M.G., prof.; KUCHERYAVYY, F.I., dotsent; KHODAKOVSKIY, Yu.F.,
inzh.; GLUSKIN, L.I.

Ways of increasing the efficiency of boring and blasting in
the Karakubskiy pits. Gor. zhur. no.7:36-38 Jl '61.
(MIRA 15:2)

1. Dnepropetrovskiy gornyy institut (for Novozhilov,
Kucheryavyy, Khodakovskiy). 2. Glavnnyy inzh. Karakubskogo
rudoupravleniya (for Gluskin).
(Komsomol'skoye region(Donetsk Province)--Boring)
(Blasting)

GLUSKIN, L.I.

Charging unit. Ogneupory 27 no.12:544-545 '62. (MIRA 15:12)

1. Karakubskoye rudoopravleniye.
(Explosives—Transportation)
(Materials Handling)

GLUSKIN, M.D., SIRYANOV, V.M.

Review of the book "Strip mining systems." "Gol' 32" no.1
62-63 Ja '63. (MFA 18-3)

1. Vaescyuzayy nauchno-issledovatel'skiy institut berdanykh
stroitel'nykh materialov i gidromekhanizatsii.

GLUSKIN, L.I., kand. tekhn. nauk; KOZHEVNIKOV, A.A., inzh,

Basic trends in increasing the efficiency of boring and blasting
operations in open-pit mines. Vzryv. delo no.51/8:231-239 '63.
(MIRA 16:6)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut nerudnoy
promyshlennosti.
(Strip mining) (Boring) (Blasting)

GLUSKIN, L.I., kand. tekhn. nauk; KORSAKOV, P.F., gornyy inzhener,
KOZHEVNIKOV, A.A., gornyy inzhener

Studying the efficiency of blasting small diameter, inclined
borehole charges in gneissic granite. Vzryv. delo no.54/11:
(MIRA 17:9)
137-145 '64.

1. Vsescyuznyy nauchno-issledovatel'skiy institut nerudnykh
stroitel'nykh materialov i gidromekhanizatsii.

GLUKHIN, L.I., kand. tekhn. nauk, MGPII, s. Tver, 1971.

Using igdanite and charges with air pockets in Samara Bend
quarries. Vzryv. delo no.54/11:630-334 '64.

(MIRA 17:9)

L. Vsesoyuznyy nauchno-issledovatel'skiy institut narudnykh
stroitel'nykh materialov i gidromekhanicheskikh.

TARTAKOVSKIY, B.N., kand. tekhn. nauk; GLUSKIN, L.I., kand. tekhn. nauk;
GAVRILYUK, I.I., inzh.; CHETVERIK, M.S., inzh.

Graphoanalytical method of investigating the regime strippling
operations. Sbor. trud. VNII Nerud no.4.33-41 '65.
(MIRA 18.11)

GLUSKIN, L. M.

USSR/Mathematics

Card : 1/1

Authors : Gluskin, L. M.

Title : Associate system of square matrices

Periodical : Dokl. AN SSSR, 97, Ed. 1, 17 - 20, July 1954

Abstract : A set G_n that embraces all the square matrices of the n -order, over a field P , is defined. The interior characteristics of the G_n system are demonstrated and the conditions for its homeomorphism (first examined in 1953 by Maltsev and Sivertseva) are further expounded. One basic theorem, formulating the above conditions, six lemmas and their proof are presented. Three references.

Institution : The G. S. Skovoroda State Pedagogical Institute of Kharkov

Presented by : Academician, A. N. Kolmogorov, April, 1954

Gluskin, L. M.
USSR/Mathematics - Abstract algebra

Card 1/1 Pub. 22 - 4/53

Authors : Gluskin, L. M.

Title : Homomorphisms of one-side simple semi-groups on to the groups

Periodical : Dok. AN SSSR 102/4, 673-676, June 1, 1955

Abstract : A construction of the greatest common division ρ of all homomorphisms of a one-side simple semi-group G on to the groups is described. Six references: 1 German, 2 French and 3 USSR (1932-1953).

Institution : The G. S. Skovoroda State Pedagogical Institute, Khar'kov

Presented by: Academician P. S. Akeksandrov, February 17, 1955

Gluskin~~X~~, L. M.

USSR/ Mathematics - Simple semi-groups

Card 1/1 Pub. 22 - 1/46

Authors : Gluskin~~X~~, L. M.

Title : Simple semi-groups with zero

Periodical : Dok. AN SSSR 103/1, 5-8, Jul 1, 1955

Abstract : A necessary and sufficient condition for the simplicity of a semi-group with zero is formulated. On the basis of this formulation, the manner in which the semi-groups are reduced with the zero to the well-known class of fully simple semi-groups in the Rees's meaning is shown. Five references: 1 USA, 2 Brit. and 2 USSR (1940-1950).

Institution : Khar'kovskiy State Pedagogical Institute imeni G. S. Skovoroda

Presented by: Academician P. S. Alexandrov, February 17, 1955

Gluskin, L.M.

44-1-172

TRANSLATION FROM: Referativnyy zhurnal, Matematika, 1957, Nr 1,
p 23 (USSR)

AUTHOR: Gluskin, L.M.
TITLE: Semigroups of Continuous Deformation (Polugruppy
nepreryvnykh deformatsiy)
PERIODICAL: Tr. 3-go Vses. matem. s"yezda, 2, MOSCOW,
AN SSR, 1956, pp 111-112
ABSTRACT: Bibliographic entry

Card 1/1

GLUSKIN L. M.

44-1-162

Translation from: Referativnyy Zhurnal, Matematika, 1957, Nr 1, p. 21 (USSR)

AUTHOR: Gluskin, L. M.

TITLE: Continuation of Homomorphisms of Semigroups (Prodolzheniye gomomorfizmov polugrupp)

PERIODICAL: Uch. zap. Khar'kovsk. gos. ped. in-ta, 1956, 18, pp. 35-39.

ABSTRACT: A description is given of a series of conditions sufficient for the continuation of an arbitrary homomorphism φ of a two-sided ideal A (or of a subsemigroup representing a group) of a semigroup G up to some homomorphism of a total semigroup G into some supersemigroup of a semigroup $\varphi(A)$. For example, continuation exists if the ideal A is of unit value. In the case where A represents a group, continuation exists if the semigroup G is commutative. In addition, the relationship between normal subsystems of an arbitrary semigroup and normal subsystems of some of its two-sided ideals is investigated.

Card 1/1

Ye. S. Lyapin.

Gluskin, L. M.

44-1-163

Translation from: Referativnyy Zhurnal, Matematika, 1957, Nr 1, p. 21 (USSR)

AUTHOR: Gluskin, L. M.

TITLE: Totally Simple Semigroups (Vpolne prostyye polugruppy)

PERIODICAL: Uch. zap. Khar'kovsk. gos. ped. in-ta, 1956, 18, pp. 41-55

ABSTRACT: Let S be a totally simple semigroup in the sense of Rees (Rees, D., Proc. Cambridge Philos. Soc., 1940, 36, Nr 4, pp. 387-400). It is proved that any homomorphic image of semigroup S is at the same time a totally simple semigroup. It is shown that any homomorphism of semigroup S is a composition of three rather simply determinable homomorphisms. The construction of closed normal subsets, which are complete inverse images of idempotents at arbitrary homomorphisms, is described. In particular, normal subsystems of semigroup S are studied. In addition, homomorphisms of semigroup S are investigated by groups, as are other properties of the same semigroup in connection with its homomorphisms.

Ye. S. Lyapin

Card 1/1

GLUSKIN, L.M. (Khar'kov)

Semigroups of matrices with nonnegative elements. Uchen. zh.
KHGU 80:167-173 '57. (MIR 12:11)
(Matrices) (Groups, Theory of)

SOV/3B-22-3-9/2

AUTHOR: Gluskin, L.M.

TITLE: On Semigroups of Matrices (O matrichnykh polugruppakh)

PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya matematicheskaya, 1958,
Vol 22, Nr 3, pp 439-448 (USSR)

ABSTRACT: Let F be a ring, the multiplicative semigroup M_F of which is the union of a group with the zero element of M_F . The author characterizes the semigroup $G_n^n(F)$ of all quadratic matrices over F by their sub-semigroup $G_n^1(F)$ which consists of all matrices of rank ≤ 1 . It is shown that $G_n^1(F)$ is completely simple. A theorem concerning the isomorphisms of the semigroups $G_n^r(F)$ is proved ($G_n^r(F)$ denotes the semigroup of all quadratic matrices of order n with elements of F of rank $\leq r$). There are 10 references, 7 of which are Soviet, 1 English, 1 German, and 1 French.

Card 1/2

On Semigroups of Matrices

ZOV/38-22-3-9/3

PRESENTED: by P.S. Aleksandrov, Academician

SUBMITTED: March 12, 1957

1. Matrix algebra--Theory

Card 2/2

USCOMM-DC-60229

SUBJECT USSR/MATHEMATICS/Algebra
AUTHOR GLUSKIN L.M.
TITLE Elementary generalized groups.
PERIODICAL Mat.Sbornik,n.Ser. 41, 1, 23-36 (1957)
reviewed 5/1957

CARD 1/1 PG - 730

The set G is a semigroup if a unique binary associative operation is defined in it. An element u of G is called invertible in the generalized sense if there exists an element v of G such that $uv = u$, $vuv = v$ (v is, in the generalized sense, the inverse element). G is called a generalized group if to each of its elements there exists a generalized inverse element and if two arbitrary ones of its idempotents are commutative. Let H = H(u, v) be a subsemigroup of a generalized group G, generated by the elements u and v. For the consideration of the generalized group these semigroups H (so-called elementary generalized groups) play the same part as cyclic groups for the consideration of ordinary groups. It is shown that every element x of H can be represented in the form $x = v^k u^l v^m$ ($l \geq k \geq 0$, $l \geq m \geq 0$, $l > 0$). It is proved that every elementary generalized group is characterized by at most three relations of a certain form and that it can be given by six integral parameters. The homomorphisms and automorphisms of an arbitrary elementary generalized group are enumerated. Some special elementary generalized groups are investigated in detail.

INSTITUTION: Charkov

GLUSKIN, L.M.

Matrix semigroups. Izv. AN SSSR. Ser. mat. 22 no.3:439-448 My-Je
'58. (MIRA 11:8)

1. Predstavleno akademikom P.S. Aleksandrovym.
(Groups, Theory of)

16(1)

AUTHORS: Gluskin,L.M., and Lyapin,Ye.S. 307/42-14-1-26/27
TITLE: Anton Kazimirovich Sushkevich (to his 70th Birthday)(Anton Kazimirovich Sushkevich (k semidesyatiletiju so dnya rozhdeniya))
PERIODICAL: Uspekhi matematicheskikh nauk, 1959, Vol. 4, No. 1, pp. 255-260(USSR)
ABSTRACT: This is a short appreciation of the merits and a career of life of A.K.Sushkevich. Professor of the Khar'kov University. He studied in Berlin from 1906-1911. In 1913 he finished his studies at the Petersburg University, 1917 - degree of Magister of Khar'kov, 1926 - degree of Doctor of Khar'kov. Since 1931 he was Professor in Voronezh, since 1929 Professor in Khar'kov. Main domain of work Quasigroups, semigroups. The investigations were continued by N.N.Vorob'yev, V.V.Wagner, A.I.Maltsev, I.S. Ponizovskiy, Ye.A.Khalevov, and others. The list of publications contains 71 papers (1922-1957). There is a photo of Sushkevich.

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AUTHOR: Gluskin, L.M. 30Y/39-23-6-4/11
TITLE: Semigroups and Rings of Endomorphisms of Linear Spaces
PERIODICAL: Izvestiya Akademii nauk SSSR, Seriya matematicheskaya, 1959,
Vol 23, Nr 6, pp 841 - 870 (USSR)
ABSTRACT: The present paper contains a detailed representation of the
results already announced in [Ref 13] concerning semigroups
and rings of linear transformations and some classes of
abstract rings. The paper consists of 6 paragraphs with 57
lemmata and theorems.
There are 13 references, 7 of which are Soviet, 5 American,
and 1 English.
PRESENTED: by A.I. Mal'tsev, Academician
SUBMITTED: April 7, 1959

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AUTHOR: Blatkin, L.M. (Блаткин, Л.М.) 20730-17.1-5/6
TITLE: Ideals of transformation Semigroups (ideals partially
partial order only)
PERIODICAL: Matematicheskie zametki, 1959, Vol. 47, No. 1, pp. 11-130 (USSR)
ABSTRACT: The ideal A of the semigroup A is called a leftideal if: i) every
non-trivial homomorphism of A induces a non-trivial
homomorphism of the semigroup A; ii) let T be an arbitrary
subsemigroup of A containing A; if there is a semigroup S
containing W and if A is an ideal in S, then there exists
a homomorphism of S in A inducing the identical isomorphism
on W. Let Ω be a set; let $\Gamma_1(a), \Gamma_2(a)$ be two subsets
of Ω ; let a be a unique mapping of $\Gamma_1(a)$ into $\Gamma_2(a)$; a is
called a partial transformation of Ω . Let $W(\Omega)$ be the set
of all partial transformations of Ω . The subsemigroup
 $A \subseteq W(\Omega)$ is called weakly transitive if $\bigcup_{a \in A} \bigcup_{x \in \Omega} \Gamma_2(a) = \Omega$.
 $A \subseteq W(\Omega)$ is called Ω -prime if for any two points $\xi, \eta \in \Omega$
there exist no $a \in A$, such that $a(\xi) = \eta$, where a belongs
only one of the points ξ, η or $\xi = \eta$, or $a(\xi) \neq \eta$.

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Principal theorem: Every weakly transitive and prime subsemigroup Δ of the semigroup $\mathcal{W}(\Omega)$ of all partial transformations of the set Ω is the δ -subsemigroup. The paper contains some further results which partly overlap with theories due to Lyapin [Ref 1,2] and partly they give a further development of results of Lyapin. The points of contact of the author and Lyapin result from the fact that the definition of the d -ideals is similar to the definition of the densely imbedded ideals of Lyapin [Ref 1,2]. There are 16 references, 6 of which are English, 5 American, 1 English, 1 German and 1 French.

SUBMITTED: 10. 1. 1971.

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cc(1)

AUTHOR: Gluskin,L.M. (Voroshilovsk) S37/38-49-1-2,5

TITLE: Semigroup of Homeomorphic Mappings of a Line Segment

PERIODICAL: Matematicheskiy sbornik, 1959, Vol 49, Nr 1, pp 15-28 (USSR)

ABSTRACT: Let S be the set of all continuous strongly monotone functions $f(\xi)$ defined on $\mathbb{S} = [0,1]$ and for which $0 \leq f(\xi) \leq 1$. S is a semigroup with respect to the superposition of the functions: $f \cdot g = f[g(\xi)]$. The author investigates the semigroup S , considers the divisibility in S , and determines the one- and two-sided ideals. He gives two non-isomorphic subsemigroups of S having no non-trivial homomorphisms. The group of automorphisms of S is not determined. The topology of S is investigated. The author proves the existence of a finite base and gives subsemigroups dense in S which are related with S with respect to their algebraic and topological properties.

There are 14 references, 7 of which are Soviet, 4 American, 1 English, and 2 Polish.

SUBMITTED: November 14, 1957

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16(1)

AUTHOR: Gluskin, L.M.

307/20-125-4-2/74

TITLE: Semigroups of Topological Mappings (Polugruppy topologicheskikh
otobrazheniy)

PERIODICAL: Doklady Akademii nauk SSSR, 1959, Vol 125, Nr 4, pp 699-702 (USSR)

ABSTRACT: Let Ω be a bounded closed point set of the R_n . Let $\text{int } \Omega \neq \emptyset$.
the maximal open set in Ω . Let Ω_i be the components of $\text{int } \Omega$,
let I be the set of all indices i . The author considers the
semigroup S of all topological mappings of Ω into themselves.
Let the rank of $a \in S$ be the cardinality of the set of all $i \in I$ for
which $a \Omega \cap \Omega_i \neq \emptyset$. Let S_r^β be the set of $a \in S$ for which rang $a \leq r$
and for which for $a \Omega \cap \Omega_i \neq \emptyset$ there exists a closed β -connected
subset $\Omega_i \subset \Omega$ so that $a \Omega \cap \Omega_i \subset \text{int } \Omega_i$. The sets S_r^β are right
ideals of S ; the sets S_r^δ , S_1^β , where $\delta = \max \beta$ are two-sided
ideals of S .
A unique mapping λ of the semigroup X into itself is called its
right translation if for all $a, b \in X$ it holds: $a \cdot \lambda b = \lambda(ab)$. Let

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Semigroup of Topological Mappings

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$$(1) \quad S_r^\beta = U_v L_v$$

be the finest decomposition of S_r^β into pairwise disjoint left ideals; f_v be arbitrary elements of S .

Theorem: A mapping λ of S_r^β into itself is its right translation then and only then if

$$(2) \quad \lambda a = af_v, \quad a \in L_v.$$

Let f be a homeomorphism of Ω onto itself. The mapping

$$(3) \quad \psi x = fxf^{-1}, \quad x \in S_r^\beta$$

is an automorphism of S_r^β .

Theorem: Every automorphism φ of S_r^β has the form $\varphi = \psi\lambda$, where ψ is of the type (3) and λ is an automorphism representing a right translation of S_r^β .

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